

Selected Python libraries.

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Goal: Learn about selected Python libraries.

Some of the libraries are crucial to the flexibility which Python offers the programmer. Here is the list of selected libraries that come with python distribution:

Python Libraries:

sys – provides access to some of the state of the Python interpreter. Some of this state is very useful, and some is just in the 'nice-to-have' category.

types – constants for the builtin types.

traceback – support for examining the call stack (mostly useful as a piece of debugging support).

pickle – convert Python objects to/from portable byte-streams (c.f. Java 1.1's new object serialization interface)

shelve – Python persistent object storage

copy – shallow and deep object copying operations

marshal – more byte stream conversions.

imp – access to import implementation.

__builtin__ – access to all builtin Python Identifiers.

__main__ – the top level object

string – string manipulation

regex – regular expression support

regex – regular expression based substitution and splitting

struct – convert from packed binary (C structs) to/from strings

math – standard mathematical functions and constants

rand – pseudo-random number generator

whrandom – Wichmann-Hill random number generator

array – high efficiency array implementation

os – portable OS API

time – time related functions

getopt – standard C getopt functionality

tempfile – generate temp file name

signal – access to POSIX signals

socket – BSD socket style network interface

select – BSD select interface
thread – lightweight process threads
posix – access to POSIX system calls
posixpath – pathname functions from POSIX
pwd – UNIX passwd file access routines
grp – UNIX group file access
dbm – BSD ndbm file access method
gdbm – any guesses?
anydbm – generic dbm-style interface (uses whatever your system prefers)
bsddb – BSD keyed db file access routines
curses – terminal independent I/O
termios – POSIX tty control API
fcntl – POSIX file and I/O control interfaces
posixfile – file object with support for locking

pdb – command line debugger
wdb – windowed debugger using STDWIN
profile – code execution profiler
pstats – view profiler statistics
dis – Python bytecode disassembler

glob – UNIX file name expansion
grep – file searching capabilities
util – the stuff that didn't belong anywhere obvious

cgi – form handling at the HTTPD server
urllib – open a URL using sockets
httplib – HTTP protocol
ftplib – FTP protocol
gopherlib – GOPHER protocol
nntplib – NNTP protocol
urlparse – parse URL strings to tuples
htmlib – HTML parser
sgmlib – SGML parser subset (enough to build the HTML parser)
rfc822 – mail header parser
mimetools – MIME message header parser

audioop – manipulate audio samples
imageop – manipulate images
aifc – audio file access for AIFF/AIFC formats
jpeg – image file access for JPEG format
rgbimg – image file access for SGI RGB files (doesn't require SGI)

md5 – RSA's MD5 message digest algorithm
mpz – GNU multiple precision integer library
rotor – rotor based encryption engine (i.e. German WWII Enigma)

Tkinter – standard Python GUI API
stdwin – access to STDWIN window system
stdwinevents – plumbing for above
rect – more plumbing

SGI IRIX – vendor specific interfaces
Macintosh – as above
Windows/MFC – as above
Linux – as above?
sunaudiodev – as above

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